

RECEIVED  
95 DEC 22 AM 11:51

PATENT  
Docket No. 5634.310

GROUP 260  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: John C. Harvey and James W.  
Cuddihy

Serial No.: 08/480,392

Filing Date: June 7, 1995

For: Signal Processing Apparatus and  
Methods

Group Art Unit: 2602

Examiner:

# 5

Assistant Commissioner of Patents  
Washington D.C. 20231

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56(a) and in conformance with the procedures of 37 C.F.R. §§ 1.97-98 and M.P.E.P. § 609, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449.

The above-referenced application claims priority under 35 U.S.C. § 120 of the following applications:

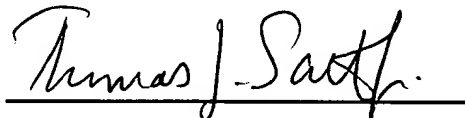
<u>Serial No.</u>	<u>Filing Date</u>	<u>Patent No.</u>
08/113,329	August 30, 1993	Pending
08/056,501	May 3, 1993	5,335,277
07/849,226	March 10, 1992	5,233,654
07/588,126	September 25, 1990	5,109,414
07/096,096	September 11, 1987	4,965,825

Applicants believe that all references cited on the attached PTO 1449 form were cited by or submitted to the PTO in one or more of the cases cited above or in U.S. Patent Application Serial No. 06/829,531, filed February 15, 1986 now U.S. Patent No. 4,704,725 and/or U.S. Patent Application Serial No. 06/317,510, filed November 3, 1981 now U.S. Patent No. 4,694,490. Therefore, no copies of the listed references are provided herewith. It is respectfully requested that the information above be expressly considered during the prosecution of this Application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

**CERTIFICATION AND/OR FEE**

Since this IDS is being filed pursuant to 37 C.F.R § 1.97(b) before the later of three months after the filing date of the above-referenced application or the date of receipt of the first Office Action on the merits, no certification or fee is required.

Respectfully submitted,

A handwritten signature in cursive script, reading "Thomas J. Scott, Jr.", written over a horizontal line.

Thomas J. Scott, Jr. (Reg. No. 27,836)

Dated: December 15, 1995

HOWREY & SIMON  
1299 Pennsylvania, N.W.  
Washington, D.C. 20004-2402  
(202) 783-0800 (telephone)  
(202) 383-6610 (telcopier)

<b>PTO 1449</b> <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus</b> <b>and Method</b>	Attorney Docket No. 5634.310	Serial No. 08/480,392
	Applicants John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date: June 7, 1995	Group: 2602

## U.S. Patent Documents

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	2,511,085	June 13, 1950	Smith	179/1	
	2,573,349	Oct. 30, 1951	Miller et al.	177/353	
	2,769,023	Oct. 30, 1956	Loew et al.	178/5.1	
	2,788,387	Apr. 9, 1957	Druz	178/5.1	
	2,864,885	Dec. 16, 1958	Morris	178/5.1	
	2,866,962	Dec. 30, 1958	Ellet	340/147	
	3,016,091	Jan. 9, 1962	Daniele	162/391	
	3,071,642	Jan. 1, 1963	Mountjoy et al.	178/5.1	
	3,213,201	Oct. 19, 1965	Flood et al.	179/15	
	3,238,297	Mar. 1, 1966	Pawley et al.	178/22	
	3,363,250	Jan. 9, 1968	Jacobson	343/225	
	3,493,674	Feb., 1970	Houghton	178/5.6	
	3,531,586	Sept. 29, 1970	Bass et al.	178/6	
	3,536,833	Oct. 27, 1970	Guanella	178/22	
	3,569,937	Mar. 9, 1971	Hoetter	340/171	
	3,573,747	Apr. 6, 1971	Adams et al.	340/172.5	
	3,584,142	June 8, 1971	Schoeffler	178/6.8	
	3,601,528	Aug. 24, 1971	McVoy	178/5.1	
	3,609,697	Sept. 28, 1971	Blevins et al.	340/172.5	
	3,657,699	Apr. 18, 1972	Rocher et al.	340/146.1	

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.310	Serial No. 08/480,392
	Applicants John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date: June 7, 1995	Group: 2602

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	3,659,046	Apr. 25, 1972	Angeleri et al.	178/22	
	3,668,307	June 6, 1972	Face et al.	178/5.6	
	3,684,823	Aug. 15, 1972	McVoy	178/5.1	
	3,693,090	Sept. 19, 1972	Gabriel	325/308	
	3,703,684	Nov. 21 1972	McVoy	325/31	
	3,725,672	Apr. 3, 1973	Reuter	307/208	
	3,729,581	Apr. 24, 1973	Anderson	178/6.8	
	3,731,197	May 1, 1973	Clark	325/32	
	3,733,430	May 15, 1973	Thompson et al.	178/5.1	
	3,736,369	May 29, 1973	Vogelman et al.	178/5.1	
	3,749,845	July 31, 1973	Fraser	179/15	
	3,752,908	Aug. 14, 1973	Boenke et al.	178/5.6	
	3,757,225	Sep. 4, 1973	Ukicki	325/308	
	3,773,977	Nov. 20, 1973	Guanella	179/1.5	
	3,777,053	Dec. 4, 1973	Wittig et al.	178/5.1	
	3,789,137	Jan. 29, 1974	Newell	178/6.6	
	3,790,700	Feb. 5, 1974	Callais et al.	178/5.1	
	3,798,359	Mar. 19, 1974	Feistel	178/22	
	3,798,610	Mar. 19, 1974	Bliss et al.	340/172.5	
	3,803,491	Apr. 9, 1974	Osborn	325/53	

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	<b>Attorney Docket No.</b> 5634.310	<b>Serial No.</b> 08/480,392
	<b>Applicants</b> John C. Harvey <i>and</i> James W. Cuddihy	
	<b>Filing Date:</b> June 7, 1995	<b>Group:</b> 2602

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	3,806,814	Apr. 23, 1974	Forbes	325/309	
	3,819,852	June 25, 1974	Wolf	178/5.6	
	3,824,332	July 16, 1974	Horowitz	178/5.1	
	3,824,467	July 16, 1974	French	325/32	
	3,825,893	July 23, 1974	Bossen et al.	340/146.1	
	3,833,757	Sept. 3, 1974	Kirk, Jr. et al.	178/5.6	
	3,835,387	Sep. 10, 1974	Rookes et al.	325/55	
	3,842,196	Oct. 15, 1974	Louglin	358/12	
	3,845,391	Oct. 29, 1974	Crosby	325/64	
	3,848,193	Nov. 12, 1974	Martin et al.	325/53	
	3,882,392	May 6, 1975	Harney	325/53	
	3,885,089	May 20, 1975	Callais et al.	178/5.1	
	3,886,302	May 27, 1975	Kosco	178/5.1	
	3,886,454	May 27, 1975	Oakley et al.	325/52	
	3,890,461	June 17, 1975	Vogelman et al.	178/5.1	
	3,891,792	June 24, 1975	Kimura	178/5.8R	
	3,893,031	July 1, 1975	Majeau et al.	325/32	
	3,894,176	July 8, 1975	Mellon	178/5.1	
	3,899,633	Aug. 12, 1975	Sorenson et al.	178/5.1	
	3,911,216	Oct. 7, 1975	Bartek et al.	178/22	

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	<b>Attorney Docket No.</b> 5634.310	<b>Serial No.</b> 08/480,392
	<b>Applicants</b> John C. Harvey <i>and</i> James W. Cuddihy	
	<b>Filing Date:</b> June 7, 1995	<b>Group:</b> 2602

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	3,914,534	Oct. 21, 1975	Forbes	178/5.1	
	3,916,091	Oct. 28, 1975	Kirk, Jr. et al.	178/5.1	
	3,919,462	Nov. 11, 1975	Hartung et al.	178/5.1	
	3,921,151	Nov. 18, 1975	Guanella	340/172.5	
	3,924,187	Dec. 2, 1975	Dormans	325/52	
	3,934,079	Jan. 20, 1976	Barnhart	178/5.1	
	3,936,593	Feb. 3, 1976	Aaronson et al.	178/5.1	
	3,936,594	Feb. 3, 1976	Schubin et al.	178/5.1	
	3,936,595	Feb. 3, 1976	Yanagimachi et al.	178/5.6	
	3,943,447	Mar. 9, 1976	Shomo, III	325/308	
	3,947,882	Mar. 30, 1976	Lightner	360/92	
	3,949,313	Apr. 6 1976	Tamada et al.	329/106	
	3,956,615	May 11, 1976	Anderson et al.	235/61.7B	
	3,970,790	July 20, 1976	Guanella	179/1.5S	
	3,975,583	Aug. 17, 1976	Meadows	175/5.6	
	3,978,449	Aug. 31, 1976	Sanders et al.	340/146.1	
	3,987,398	Oct. 19, 1976	Fung	325/309	
	3,988,528	Oct. 26, 1976	Yanagimachi et al.	178/5.6	
	3,997,718	Dec. 14, 1976	Ricketts et al.	178/6.8	
	4,024,574	May 17, 1977	Nieson	358/117	

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.310	Serial No. 08/480,392
	Applicants John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date: June 7, 1995	Group: 2602

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,025,851	May 24, 1977	Hazelwood et al.	325/31	
	4,025,947	May 24, 1977	Michael	358/86	
	4,025,948	May 24, 1977	Loshin	358/122	
	4,031,548	June 21, 1977	Kato et al.	358/188	
	4,048,619	Sept. 13, 1977	Forman, Jr. et al.	340/154	
	4,049,906	Sept. 20, 1977	Hafner et al.	178/2C	
	4,054,911	Oct. 18, 1977	Fletcher et al.	358/141	
	4,058,830	Nov. 15, 1977	Gulnet et al.	358/86	
	4,068,264	Jan. 10, 1978	Pires	358/122	
	4,079,419	Mar. 14, 1978	Siegle et al.	358/193	
	4,081,612	Mar. 28, 1978	Hafner	179/15BA	
	4,081,753	Mar. 28, 1978	Miller	325/396	
	4,081,831	Mar. 28, 1978	Tang et al.	358/114	
	4,091,417	May 23, 1978	Nieson	358/117	
	4,104,486	Aug. 1, 1978	Martin et al.	179/2	
	4,107,735	Aug. 15, 1978	Frohbach	358/84	
	4,112,464	Sept. 5, 1978	Gulf et al.	358/122	
	4,115,662	Sept. 19, 1978	Gulnet et al.	179/15BV	
	4,115,807	Sept 19, 1978	Pires	358/122	
	4,120,030	Oct. 10, 1978	Johnstine	364/200	

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.310	Serial No. 08/480,392
	Applicants John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date: June 7, 1995	Group: 2602

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,130,833	Dec. 19, 1978	Choenet	358/122	
	4,131,881	Dec. 26, 1978	Robinson	340/167R	
	4,138,726	Feb. 6, 1979	Girault et al.	364/521	
	4,160,120	July 3, 1979	Barnes et al.	178/22	
	4,161,751	July 17, 1979	Ost	358/114	
	4,163,254	July 31, 1979	Block et al.	358/122	
	4,163,255	July 31, 1979	Pires	358/122	
	4,168,396	Sept. 18, 1979	Best	178/22	
	4,170,782	Oct. 9, 1979	Miller	358/84	
	4,171,513	Oct. 16, 1979	Otey et al.	325/32	
	4,172,213	Oct. 23, 1979	Barnes et al.	178/22	
	4,186,413	Jan. 29, 1980	Mortimer	358/146	
	4,196,310	Apr. 1, 1980	Forman et al.	178/22	
	4,200,770	Apr. 29, 1980	Hellman et al.	178/22	
	4,200,913	Apr. 29, 1980	Kuhar et al.	364/900	
	4,205,343	May 27, 1980	Barrett	358/147	
	4,213,124	July 15, 1980	Barda et al.	340/706	
	4,215,366	July 29, 1980	Davidson	358/124	
	4,215,370	July 29, 1980	Kirk, Jr.	358/146	
	4,225,884	Sept. 30, 1980	Block et al.	358/122	

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.310	Serial No. 08/480,392
	Applicants John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date: June 7, 1995	Group: 2602

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,225,967	Sep. 30, 1980	Miwa et al.	455/68	
	4,230,990	Oct. 28, 1980	Lert, Jr et al.	455/67	
	4,232,193	Nov. 4, 1980	Gerard	179/1.5R	
	4,236,217	Nov. 25, 1980	Kennedy	364/483	
	4,237,484	Dec. 2, 1980	Brown et al.	358/142	
	4,245,245	Jan. 13, 1981	Matsumoto et al.	358/122	
	4,247,106	Jan. 27, 1981	Jeffers et al.	273/85G	
	4,250,524	Feb. 10, 1981	Tomizawa	358/122	
	4,253,114	Feb. 24, 1981	Tang et al.	358/114	
	4,253,157	Feb. 24, 1981	Kirschner et al.	364/900	
	4,262,329	Apr. 14, 1981	Bright et al.	364/200	
	4,264,924	Apr. 28, 1981	Freeman	358/86	
	4,264,925	Apr. 28, 1981	Freeman et al.	358/86	
	4,266,243	May 5, 1981	Shutterly	358/121	
	4,275,411	June 23, 1981	Lippel	358/13	
	4,283,602	Aug. 11, 1981	Adams et al.	179/1.5R	
	4,284,976	Aug. 18, 1981	Gable et al.	340/147	
	4,286,281	Aug. 25 1981	Suzuki	358/4	
	4,287,592	Sept. 1, 1981	Paulish et al.	370/88	
	4,288,809	Sept. 8, 1981	Yabe	358/12	

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.310	Serial No. 08/480,392
	Applicants John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date: June 7, 1995	Group: 2602

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,290,141	Sept. 15, 1981	Anderson et al.	455/2	
	4,290,142	Sept. 15, 1981	Schnee et al.	455/3	
	4,292,650	Sept. 29, 1981	Henderickson	358/173	
	4,295,223	Oct. 13, 1981	Shutterly	455/72	
	4,302,771	Nov. 24, 1981	Gargini	358/86	July 23, 1980
	4,304,990	Dec. 8, 1981	Atalla	235/380	Feb. 4, 1980
	4,305,101	Dec. 8, 1981	Yarbrough et al.	360/69	Apr. 16, 1979
	4,305,131	Dec. 8, 1981	Best	364/521	
	4,305,131	Dec. 8, 1981	Best	364/521	Mar. 31, 1980
	4,306,289	Dec. 15, 1981	Lumley	364/200	Feb. 4, 1980
	4,306,305	Dec. 15, 1981	Doi et al.	371/38	Oct. 19, 1979
	4,307,446	Dec. 22, 1981	Barton et al.	364/200	May 2, 1979
	4,310,854	Jan. 12, 1982	Baer	358/143	Aug. 29, 1979
	4,312,016	Jan. 19, 1982	Glaab et al.	358/188	Feb. 2, 1979
	4,313,132	Jan. 26, 1982	Doles et al.	358/114	Oct. 31, 1979
	4,314,367	Feb. 2, 1982	Bakka et al.	370/60	Jan. 17, 1980
	4,316,055	Feb. 16, 1982	Feistel	178/22.06	Dec. 30, 1976
	4,316,245	Feb. 16, 1982	Luu et al.	364/200	Dec. 7, 1978
	4,318,125	Mar. 2, 1982	Shutterly	358/121	Apr. 25, 1979
	4,319,079	Mar. 9, 1982	Best	178/22.09	Jan. 17, 1980

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.310	Serial No. 08/480,392
	Applicants John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date: June 7, 1995	Group: 2602

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,322,745	Mar. 30, 1982	Saeki et al.	358/123	Mar. 21, 1980
	4,323,921	Apr. 6, 1982	Guillou	358/114	Jan. 23, 1980
	4,323,922	Apr. 6, 1982	den Toonder et al.	358/117	Dec. 17, 1979
	4,325,078	Apr. 13, 1982	Seatom et al.	358/117	Nov. 20, 1979
	4,329,675	May 11, 1982	Van Hulle	358/86	Sep. 23, 1980
	4,329,684	May 11, 1982	Monteath et al.	340/707	Jan. 15, 1980
	4,331,973	May 25, 1982	Eskin et al.	358/84	Oct. 20, 1980
	4,331,974	May 25, 1982	Cogswell et al.	358/86	Oct. 21, 1980
	4,332,980	June 1, 1982	Reynolds et al.	179/2A	May 30, 1980
	4,333,152	June 1, 1982	Best	364,521	June 13, 1980
	4,334,242	June 8, 1982	Mangold	358/127	Jan. 14, 1980
	4,336,553	June 22, 1982	den Toonder et al.	358/120	May 14, 1980
	4,336,559	June 22, 1982	Koyama et al.	360/73	Nov. 9, 1978
	4,337,480	June 29, 1982	Bourassin et al.	358/93	Feb. 8, 1990
	4,337,483	June 29, 1982	Guillou	358/114	Jan. 31, 1980
	4,338,628	July 6, 1982	Payne et al.	358/120	Dec. 19, 1979
	4,339,798	July 13, 1982	Hedges et al.	364/412	Dec. 17, 1979
	4,340,903	July 20, 1982	Tamura	358/10	Aug. 6, 1980
	4,347,498	Aug. 31, 1982	Lee et al.	340/825.02	Nov. 21, 1979
	4,347,532	Aug. 31, 1982	Korver	358/183	Oct. 14, 1980

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.310	Serial No. 08/480,392
	Applicants John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date: June 7, 1995	Group: 2602

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,353,088	Oct. 5, 1982	den Toonder et al.	358/120	May 14, 1980
	4,354,201	Oct. 12, 1982	Sechet et al.	358/122	June 11, 1980
	4,355,372	Oct. 19, 1982	Johnson et al.	364/900	Dec. 24, 1980
	4,360,827	Nov. 23, 1982	Braun	358/85	June 2, 1981
	4,361,730	Nov. 30, 1982	Barber et al.	179/5 R	Aug. 29, 1980
	4,361,877	Nov. 30, 1982	Dyer et al.	364/900	Feb. 5, 1980
	4,364,081	Dec. 14, 1982	Hashimoto et al.	358/13	Apr. 16, 1981
	4,365,110	Dec. 21, 1982	Lee et al.	178/22.10	June 5, 1979
	4,367,548	Jan. 4, 1983	Cotten, Jr. et al.	370/3	Apr. 10, 1980
	4,367,557	Jan 4, 1983	Stern et al.	455/4	May 25, 1979
	4,375,579	Mar. 1, 1983	Davida et al.	178/22.10	Jan. 30, 1980
	4,375,651	Mar. 1, 1983	Templin et al.	358/191.1	July 27, 1981
	4,379,205	Apr. 5, 1983	Wyner	178/22.10	June 22, 1979
	4,381,522	Apr. 26, 1983	Lambert	358/86	Dec. 1, 1980
	4,383,257	May 10, 1983	Giallanza et al.	340/825.47	Dec. 12, 1980
	4,388,643	June 14, 1983	Aminetzah	358/123	Apr. 6, 1981
	4,388,645	June 14, 1983	Cox et al.	358/147	Apr. 13, 1981
	4,389,671	June 21, 1983	Posner et al.	358/124	Sept. 29, 1980
	4,390,898	June 28, 1983	Bond et al.	358/119	Mar. 23, 1981
	4,390,901	June 28, 1983	Keiser	358/147	Oct. 16, 1980

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	<b>Attorney Docket No.</b> 5634.310	<b>Serial No.</b> 08/480,392
	<b>Applicants</b> John C. Harvey <i>and</i> James W. Cuddihy	
	<b>Filing Date:</b> June 7, 1995	<b>Group:</b> 2602

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,390,904	June 28, 1983	Johnston et al.	358/335	Sep. 20, 1979
	4,394,687	July 19, 1983	Hutt et al.	358/147	Apr. 30, 1980
	4,394,691	July 19, 1983	Amano et al.	358/194.1	July 30, 1981
	4,394,762	July 19, 1983	Nabeshima	371/38	Jan. 6, 1981
	4,395,757	July 26, 1983	Bienvenu et al.	364/200	Apr. 14, 1981
	4,396,947	Aug. 2, 1983	Cheung	358/124	Mar. 26, 1980
	4,398,216	Aug. 9, 1983	Field et al.	358/121	Sept. 19, 1980
	4,400,587	Aug. 23, 1983	Taylor et al.	179/27D	Aug. 25, 1981
	4,404,589	Sept. 13, 1983	Wright, Jr.	358/86	Oct. 21, 1980
	4,405,942	Sept. 20, 1983	Block et al.	358/119	Mar. 3, 1982***
	4,410,917	Oct. 18, 1983	Newdoll et al.	360/15	Sept. 14, 1981
	4,413,339	Nov. 1, 1983	Riggle et al.	371/38	June 24, 1981
	4,422,105	Dec. 20, 1983	Rodesch et al.	358/903	Sep. 30, 1980
	4,424,532	Jan. 3, 1984	den Toonder et al.	358/120	May 9, 1983***
	4,425,581	Jan. 10, 1984	Scweppe et al.	358/148	Apr. 17, 1981
	4,430,731	Feb. 7, 1984	Gimple et al.	370/30	Apr. 29, 1981
	4,433,207	Feb. 21, 1984	Best	178/22.09	Sept. 10, 1981
	4,434,323	Feb. 28, 1984	Levine et al.	178/22.17	June 29, 1981
	4,434,436	Feb. 28, 1984	Kleykamp et al.	358/118	July 13, 1981
	4,434,464	Feb. 28, 1984	Suzuki et al.	364/200	Mar. 31, 1981

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.310	Serial No. 08/480,392
	Applicants John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date: June 7, 1995	Group: 2602

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,446,519	May 1, 1984	Thomas	364/200	May 26, 1981
	4,449,247	May 15, 1984	Waschka, Jr.	455/9	Jul. 30, 1980
	4,451,701	May 29, 1984	Bendig	179/2 TV	Oct. 11, 1983***
	4,467,139	Aug. 21, 1984	Mollier	178/22.08	Mar. 12, 1981
	4,467,356	Aug. 21, 1984	McCoy	358/146	Sept. 24, 1981
	4,471,163	Sept. 11, 1984	Donald et al.	178/22.08	Oct. 5, 1981
	4,471,164	Sept. 11, 1984	Henry	178/22.11	Oct. 13, 1981
	4,475,123	Oct. 2, 1984	Dumbauld et al.	358/114	Apr. 2, 1981
	4,488,179	Dec. 11, 1984	Krüger et al.	358/181	Sept. 23, 1981
	4,491,983	Jan. 1, 1985	Pinnow et al.	455/612	Apr. 29, 1982***
	4,513,174	Apr. 23, 1985	Herman	178/22.08	Mar. 19, 1981
	4,528,588	July 9, 1985	Löfberg	358/122	Sept. 25, 1981
	4,528,589	July 9, 1985	Block et al	358/122	Feb. 1, 1984***
	4,536,791	Aug. 20, 1985	Campbell et al.	358/122	Mar. 31, 1981
	4,593,353	June 3, 1986	Pickholtz	364/200	Oct. 26, 1981
	4,598,288	July 1, 1986	Yarbrough et al.	340/825.34	Dec.20, 1983***
	4,689,661	Aug. 25, 1987	Barbieri et al.	358/12	June 22, 1981
	4,752,834	June 21, 1988	Koombes	358/335	Aug. 31, 1981
	4,862,268	Aug. 29, 1989	Campbell et al.	358/141	Apr. 18, 1985***
	Re. 31,735	Nov. 13, 1984	Davidson	358/124	July 26, 1982***

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.310	Serial No. 08/480,392
	Applicants John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date: June 7, 1995	Group: 2602

\* - If pertinent

\*\*\* - Claims priority from parent application filed prior to Nov. 3, 1981

### FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION	
					YES	NO
	WO 81/02961	Oct. 15, 1981	PCT Application	H04N 7/16, 7/04	n/a	
	1 554 411	Oct. 17, 1979	Great Britain	H04b 3/54		X
	2 034 995	June 11, 1980	Great Britain	H03J 7/18, 5/00		X
	23 38 380	Feb. 13, 1975	Germany		abstract	X
	29 18 846	Nov. 13, 1980	Germany	F26B 12/02	X	
	56-47179	Apr. 28, 1981	Japan		X	

### OTHER DOCUMENTS

EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
	James, A., "ORACLE - Broadcasting the Written Word," <u>Wireless Word</u> , July 1975.
	Carne, E. Bryan, "The Wired Household," <u>IEEE Spectrum</u> , October 1979, p. 61-66.
	McKenzie, G.A., "ORACLE - An Information Broadcasting Service Using Data Transmission in the Vertical Interval," <u>Journal of the SMPTE</u> , vol. 83, Number 1, January 1974, pp. 6-10.
	Edwardson, S.M., "CEEFAX: A Proposed New Broadcasting Service," <u>Journal of the SMPTE</u> , January 1974, p. 14-19.
	J. Chiddix, "Automated Videotape Delay of Satellite Transmissions," <u>Satellite Communications Magazine</u> , May 1978 (reprint - 2 pages).

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	<b>Attorney Docket No.</b> 5634.310	<b>Serial No.</b> 08/480,392
	<b>Applicants</b> John C. Harvey <i>and</i> James W. Cuddihy	
	<b>Filing Date:</b> June 7, 1995	<b>Group:</b> 2602

EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
	J. Chiddix, "Tape Speed Errors in Line-Locked Videocassette Machines For CATV Applications," <u>TVC</u> , November 1977 (reprint - 2 pages).
	CRC Electronics, Inc. Product Description, "Model TD-100 - Time Delay Videotape Controller," 2 pages.
	CRC Electronics, Inc., NET PRICE LIST - March 1, 1980 (TD-100 Time Delay Videotape Controller), 1 page.
	CRC Electronics, Inc. Product Description, "Model P-1000 Videocassette Programmer," 4 pages.
	CRC Electronics, Inc., NET PRICE LIST - July 31, 1981 (P-1000 Video Machine Programmer), 1 page.
	Tunmann, E.O. et al. (Tele-Engineering Corp.), "Microprocessor For CATV Systems," <u>Cable 78 - Technical Papers</u> , National Cable Television Association 27th Annual Convention, New Orleans, LA, April 30-May 3, 1978 (" <u>Cable 78</u> "), pp. 70-75.
	Vega, Richard L. (Telecommunications Systems, Inc.), "From Satellite to Earth Station to Studio to S-T-L To MDS Transmitter To The Home; Pay Television Comes To Anchorage, Alaska," <u>Cable 78</u> , pp. 76-80.
	Wright, James B. et al. (Rockford Cablevision, Inc.), "The Rockford Two-Way Cable Project: Existing and Projected Technology," <u>Cable 78</u> , pp. 20-28.
	Fannetti, John D. et al. (City of Syracuse), "The Urban Market: Paving the Way for Two-Way Telecommunications," <u>Cable 78</u> , pp. 29-33.
	Schnee Rolf M. et al. (Heinrich-Hertz-Institut Berlin (West)), "Technical Aspects of Two-Way CATV Systems in Germany," <u>Cable 78</u> , pp. 34-41.
	Dickinson, Robert V.C. (E-Com Corporation), "A Versatile, Low Cost System for Implementing CATV Auxiliary Services," <u>Visions '79 - Technical Papers</u> , National Cable Television Association 28th Annual Convention, Las Vegas, NV, May 20-23, 1979, (" <u>Visions '79</u> "), pp. 65-72.
	Evans, William E. et al. (Manitoba Telephone System), "An Intercity Coaxial Cable Electronic Highway," <u>Visions '79</u> , pp. 73-79.
	Schrock, Clifford B. (C.B. Schrock and Associates, Inc.), "Pay Per View, Security, and Energy Controls Via Cable: The Rippling River Project," <u>Visions '79</u> , pp. 80-85.
	Southworth, Glen (Colorado Video, Inc.), "Narrow-Band Video: The UPI 'Newstime' Technology," <u>Visions '79</u> , pp. 86-88.

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	<b>Attorney Docket No.</b> 5634.310	<b>Serial No.</b> 08/480,392
	<b>Applicants</b> John C. Harvey <i>and</i> James W. Cuddihy	
	<b>Filing Date:</b> June 7, 1995	<b>Group:</b> 2602

EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
	Daly IV, Raymond E. (Computer Cablevision, Inc.), "Potential Use of Microcomputers - The Threats to Technical Personnel, Manufacturers And Owners," <u>Visions '79</u> , pp. 124-26.
	Grabenstein, James B. (Potomac Valley Television Co., Inc.), "System Design and Operation with 'Basic'," <u>Visions '79</u> (Appendix B), p. 127.
	Amell, Richard L. (Cox Cable Communications, Inc.), "Computer-Aided CATV System Design," <u>Visions '79</u> , pp. 128-33.
	Yoshino, Hirokazu et al. (Matsushita Electric Industrial Co., Ltd.), "Multi-Information System Using Fiber Optics," <u>Visions '79</u> , pp. 134-137.
	Albright, Thomas G. (Printer Terminal Communications Corporation), "Cable Service: A Data Distribution Link," <u>Visions of the 80's - Technical Papers</u> , National Cable Television Association 29th Annual Convention, Dallas, TX, May 18-21, 1980 (" <u>Visions of the 80's</u> "), pp. 30-34.
	Bliveau, Joseph J. (Centre Commun d'Études de Télévision et Télécommunications), "Measuring Methods and Equipments for Data Packet Broadcasting," <u>Visions of the 80's</u> , pp. 35-39.
	Katz, Harold W. (Interactive Systems/3M), "Status Report on EIA Broadband Modem Standards," <u>Visions of the 80's</u> , pp. 40-44.
	Lopinto, John J. (Home Box Office), "Considerations for Implementing Teletext in the Cable System," <u>Visions of the 80's</u> , pp. 45-48.
	O'Brien, Jr., Thomas E. (General Instrument Corporation), "System Design Criteria of Addressable Terminals Optimized for the CATV Operator," <u>Visions of the 80's</u> , pp. 89-91.
	Ost, Clarence S. et al. (Electronic Mechanical Products Co.), "High-Security Cable Television Access System," <u>Visions of the 80's</u> , pp. 92-94.
	Bacon, John C. (Scientific-Atlanta, Inc.), "Is Scrambling the Only Way?," <u>Visions of the 80's</u> , pp. 95-98.
	Davis, Allen (Home Box Office), "Satellite Security," <u>Visions of the 80's</u> , pp. 99-100.
	Mannino, Joseph A. (Applied Data Research, Inc.), "Computer Applications in Cable Television," <u>Visions of the 80's</u> , pp. 116-17.
	Beck, Ann et al. (Manhattan Cable TV), "An Automated Programming Control System for Cable TV," <u>Visions of the 80's</u> , pp. 122-27.

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	Attorney Docket No. 5634.310	Serial No. 08/480,392
	Applicants John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date: June 7, 1995	Group: 2602

EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
	Schloss, Robert E. et al. (Omega Communications, Inc.), "Controlling Cable TV Head Ends and Generating Messages by Means of a Micro Computer," <u>Visions of the 80's</u> , pp. 136-38.
	Eissler, Charles O. (Oak Communications, Inc.), "Addressable Control," <u>Cable: '81 The Future of Communications - Technical Papers</u> , National Cable Television Association 30th Annual Convention, Los Angeles, CA, May 29-June 1, 1981 ( <u>"Cable: '81"</u> ), pp. 29-33.
	Schoeneberger, Carl F. (TOCOM, Inc.), "Addressable Terminal Control Using the Vertical Interval," <u>Cable: '81</u> , pp. 34-40.
	Stern, Joseph L. (Stern Telecommunications Corporation), "Addressable Taps," <u>Cable: '81</u> , p. 41.
	Brown, Larry C. (Pioneer Communications of America), "Addressable Control - A Big First Step Toward the Marriage of Computer, Cable, and Consumer," <u>Cable: '81</u> , pp. 42-46.
	Grabowski, Ralph E. (VISIONtec), "The Link Between the Computer and Television," <u>Cable: '81</u> , pp. 99-100.
	Ciciora, Ph.D., W.S. (Zenith Radio Corporation), "VIRTEXT & VIRDATA: Adventures in Vertical Interval Signaling," <u>Cable: '81</u> , pp. 101-04.
	Gilbert, Bill et al. (TEXSCAN Corporation), "Automatic Status Monitoring for a CATV Plant," <u>Cable: '81</u> , pp. 124-28.
	Ciciora, Walter et al., "An Introduction to Teletext and Viewdata with Comments on Compatibility," <u>IEEE Transactions on Consumer Electronics</u> , Vol. CE-25, No. 3, July 1979 ( <u>"Consumer Electronics"</u> ), pp. 235-45.
	Tanton, N.E. "UK Teletext - Evolution And Potential," <u>Consumer Electronics</u> , pp. 246-50.
	Bright, Roy D., "Prestel - The World's First Public Viewdata Service," <u>Consumer Electronics</u> , pp. 251-55.
	Bown, H.G. et al., "Telidon: A New Approach to Videotex System Design," <u>Consumer Electronics</u> , pp. 256-68.
	Chitnis, A.M. et al., "Videotex Services: Network and Terminal Alternatives," <u>Consumer Electronics</u> , pp. 269-78.
	Hedger, J. "Telesoftware: Home Computing Via Broadcast Teletext," <u>Consumer Electronics</u> , pp. 279-87.
	Crowther, G.O., "Teletext and Viewdata Systems and Their Possible Extension to Europe and USA," <u>Consumer</u>

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	<b>Attorney Docket No.</b> 5634.310	<b>Serial No.</b> 08/480,392
	<b>Applicants</b> John C. Harvey <i>and</i> James W. Cuddihy	
	<b>Filing Date:</b> June 7, 1995	<b>Group:</b> 2602

EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
	<u>Electronics</u> , pp. 288-94.
	Gross, William S., "Info-Text, Newspaper of the Future," <u>Consumer Electronics</u> , pp. 295-97.
	Robinson, Gary et al., "'Touch-Tone' Teletext - A Combined Teletext-Viewdata System," <u>Consumer Electronics</u> , pp. 298-303.
	O'Connor, Robert A., "Teletext Field Tests," <u>Consumer Electronics</u> , pp. 304-10.
	Blank, John, "System and Hardware Considerations of Home Terminals With Telephone Computer Access," <u>Consumer Electronics</u> , pp. 311-17.
	Plummer, Robert P. et al., "4004 Futures for Teletext and Videotex in the U.S.," <u>Consumer Electronics</u> , pp. 318-26.
	Marti, B. et al., "The Antiope Videotex System," <u>Consumer Electronics</u> , pp. 327-33.
	Frandon, P. et al., "Antiope LSI," <u>Consumer Electronics</u> , pp. 334-38.
	Crowther, G.O., "Teletext and Viewdata Costs As Applied to the U.S. Market," <u>Consumer Electronics</u> , pp. 339-44.
	Mothersole, Peter L., "Teletext Signal Generation Equipment and Systems," <u>Consumer Electronics</u> , pp. 345-52.
	Harden, Brian, "Teletext/Viewdata LSI," <u>Consumer Electronics</u> , pp. 353-58.
	Swanson, E. et al., "An Integrated Serial to Parallel Converter for Teletext Application," <u>Consumer Electronics</u> , pp. 359-61.
	Neal, C. Bailey et al., "A Frequency-Domain Interpretation of Echoes and Their Effect on Teletext Data Reception," <u>Consumer Electronics</u> , pp. 362-77.
	Goyal, Shri K. et al., "Reception of Teletext Under Multipath Conditions," <u>Consumer Electronics</u> , pp. 378-92.
	Prosser, Howard F., "Set Top Adapter Considerations for Teletext," <u>Consumer Electronics</u> , pp. 393-99.
	Suzuki, Tadahiko et al., "Television Receiver Design Aspects for Employing Teletext LSI," <u>Consumer Electronics</u> , pp. 400-05.

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	<b>Attorney Docket No.</b> 5634.310	<b>Serial No.</b> 08/480,392
	<b>Applicants</b> John C. Harvey <i>and</i> James W. Cuddihy	
	<b>Filing Date:</b> June 7, 1995	<b>Group:</b> 2602

EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
	Baer, Ralph H., "Tele-Briefs-A Novel User-Selectable Real Time News Headline Service for Cable TV," <u>Consumer Electronics</u> , pp. 406-08.
	Sherry, L.A., "Teletext Field Trials in the United Kingdom," <u>Consumer Electronics</u> , pp. 409-23.
	Clifford, Colin, "A Universal Controller for Text Display Systems," <u>Consumer Electronics</u> , pp. 424-429.
	Barlow, "The Design of an Automatic Machine Assignment System", <u>Journal of the SMPTE</u> , July 1975, Vol. 84, p. 532-537.
	Barlow, "The Automation of Large Program Routing Switchers", <u>SMPTE Journal</u> , July 1979, Vol. 88, p. 493-497.
	Barlow, "The Computer Control of Multiple-Bus Switchers", <u>SMPTE Journal</u> , September 1976, Vol. 85, p. 720-723.
	Barlow, "The Assurance of Reliability", <u>SMPTE Journal</u> , February 1976, Vol. 85, p. 73-75.
	Barlow, "Some Features of Computer-Controlled Television Station Switchers", <u>Journal of the SMPTE</u> , March 1972, Vol. 81, p. 179-183.
	Barlow et al., "A Universal Software for Automatic Switchers", <u>SMPTE Journal</u> , October 1978, Vol. 87, p. 682-683.
	Butler, "PCM-Multiplexed Audio in a Large Audio Routing Switcher", <u>SMPTE Journal</u> , November 1976, Vol. 85, p. 875-877.
	Dickson et al., "An Automated Network Center", <u>Journal of the SMPTE</u> , July 1975, Vol. 84, p. 529-532.
	Edmondson et al., "NBC Switching Central", <u>SMPTE Journal</u> , October 1976, Vol. 85, p. 795-805.
	Flemming, "NBC Television Central - An Overview", <u>SMPTE Journal</u> , October 1976, Vol. 85, p. 792-795.
	Horowitz, "CBS" New-Technology Station, WBBM-T", <u>SMPTE Journal</u> , March 1978, Vol. 87, p. 141-146
	Krochmal et al., "Television Transmission Audio Facilities at NBC New York", <u>SMPTE Journal</u> , October 1976, Vol. 85, p. 814-816.
	Kubota et al., "The Videomelter", <u>SMPTE Journal</u> , November 1978, Vol. 87, p. 753-754.
	Mausler, "Video Transmission Video Facilities at NBC New York", <u>SMPTE Journal</u> , October 1976, Vol. 85, p.

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	<b>Attorney Docket No.</b> 5634.310	<b>Serial No.</b> 08/480,392
	<b>Applicants</b> John C. Harvey <i>and</i> James W. Cuddihy	
	<b>Filing Date:</b> June 7, 1995	<b>Group:</b> 2602

EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
	811-814.
	Negri, "Hardware Interface Considerations for a Multi-Channel Television Automation System", <u>SMPTE Journal</u> , November 1976, Vol. 85, p. 869-872.
	Paganuzzi, "Communication in NBC Television Central", <u>SMPTE Journal</u> , November 1976, Vol. 85, p. 866-869.
	Roth et al., "Functional Capabilities of a Computer Control System for Television Switching", <u>SMPTE Journal</u> , October 1976, Vol. 85, p. 806-811.
	Rourke, "Television Studio Design - Signal Routing and Measurement", <u>SMPTE Journal</u> , September 1979, Vol. 88, p. 607-609.
	Yanney, "Sixty-Device Remote-Control System for NBC's Television Central Project", <u>SMPTE Journal</u> , November 1976, Vol. 85, p. 873-877.
	Young et al., "Developments in Computer-Controlled Television Switches", <u>Journal of the SMPTE</u> , August 1973, Vol. 82, p. 658-661.
	Young et al., "The Automation of Small Television Stations", <u>Journal of the SMPTE</u> , Oct. 1971, Vol. 80, p. 806-811.
	Zborowski, "Automatic Transmission Systems for Television", <u>SMPTE Journal</u> , June 1978, Vol. 87, p. 383-385.
	"Landmark forms cable weather news network," EDITOR & PUBLISHER, (August 8, 1981) p. 15.
	"Broadcast Teletext Specification," published jointly by British Broadcasting Corporation, Independent Broadcasting Authority, British Radio Equipment Manufacturers' Association (September 1976), pp. 1-24.
	"Colormax Cable captioning - 16,000,000 Subs NEED It!," Colormax Electronic Corp. (advertisement), 3 pages.
	"7609 Sat-A-Dat Decoder/Controller," Group W Satellite Communications (advertisement) 2 pages.
	"Teletext Timing Chain Circuit (SAA5020)," (August 1978), pp. 109.
	"Teletext Video Processor (SAA 5030)," Mullard (December 1979), pp. 1-9.
	"Video Text Decoder Systems (Signetics)", <u>Phillips IC Product Line Summary</u> (May 1981), pp. 15-16.
	"Teletext Acquisition and Control Circuit (SAA5040 Series)," Mullard (June 1980), pp. 1-16.
	"Asynchronous Data Transmission System Series 2100 VIDATA," Wagener Communications, Inc.

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <b>Title: Signal Processing Apparatus and Method</b>	<b>Attorney Docket No.</b> 5634.310	<b>Serial No.</b> 08/480,392
	<b>Applicants</b> John C. Harvey <i>and</i> James W. Cuddihy	
	<b>Filing Date:</b> June 7, 1995	<b>Group:</b> 2602

EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
	(advertisement), 2 pages.
	"Zenith VIRTEXTM . . . Vertical Interval Region Text and Graphics," Zenith Radio Corporation (flyer), 7 pages.
	Anon, "Television Network Automated By Microcomputer-Controlled Channels," Computer Design, Vol. 15, no. 11, (Nov., 1976), pp. 50, 59, 62, 66 and 70.
	Kinik, et al., "A Network Control System For Television Distribution By Satellite," <u>Journal of The SMPTE</u> , Feb. 1975, vo. 84, no. 2, pp. 63-67.
	Chiddix, "Videocassette Banks Automate Delayed Satellite Programming," Aug. 1978, TV Comuncations, pp. 38-39.
	Curnal, et al., "Automating Television Operating Centers," Bell Laboratories Record, March, 1978, pp. 65 - 70.

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :  
**John C. Harvey and James W. Cuddihy** : Examiner:  
 Serial No. 08/480,392 : Group Unit: 2602  
 Filed 7-Jun-95 : Atty Dkt: 5634.310  
 For **SIGNAL PROCESSING APPARATUS AND METHODS**

COPENDING RELATED U.S. PATENT APPLICATIONS

Assistant Commissioner of Patents  
 Washington, D.C. 20231

Sir:

Listed below are copending U.S. patent applications related to this application.

<u>Application No.</u>	<u>Filing Date</u>	<u>Atty. Dkt.</u>
08/113,329	30-Aug-93	5634.008
08/397,371	2-March-95	5634.017
08/397,582	2-March-95	5634.010
08/397,636	2-March-95	5634.012
08/435,757	9-May-95	5634.036
08/435,758	9-May-95	5634.041
08/437,044	9-May-95	5634.047
08/437,045	9-May-95	5634.042
08/437,629	9-May-95	5634.044
08/437,635	9-May-95	5634.045
08/437,791	9-May-95	5634.040
08/437,819	9-May-95	5634.049
08/437,864	9-May-95	5634.038
08/437,887	9-May-95	5634.037
08/437,937	9-May-95	5634.048
08/438,011	9-May-95	5634.050
08/438,206	9-May-95	5634.039

08/438,216	9-May-95	5634.046
08/438,659	9-May-95	5634.043
08/439,668	15-May-95	5634.062
08/439,670	15-May-95	5634.081
08/440,657	15-May-95	5634.051
08/440,837	15-May-95	5634.059
08/441,027	16-May-95	5634.053
08/441,033	15-May-95	5634.060
08/441,575	15-May-95	5634.056
08/441,577	15-May-95	5634.080
08/441,701	15-May-95	5634.052
08/441,749	16-May-95	5634.082
08/441,821	16-May-95	5634.085
08/441,880	16-May-95	5634.075
08/441,942	16-May-95	5634.061
08/441,996	16-May-95	5634.086
08/442,165	16-May-95	5634.087
08/442,327	16-May-95	5634.083
08/442,335	16-May-95	5634.088
08/442,369	16-May-95	5634.055
08/442,383	16-May-95	5634.074
08/442,505	16-May-95	5634.084
08/442,507	16-May-95	5634.089
08/444,643	19-May-95	5634.111
08/444,756	19-May-95	5634.107
08/444,757	19-May-95	5634.103
08/444,758	19-May-95	5634.114
08/444,781	19-May-95	5634.110
08/444,786	19-May-95	5634.100
08/444,787	19-May-95	5634.118
08/444,788	19-May-95	5634.109
08/444,887	19-May-95	5634.115
08/445,045	19-May-95	5634.108
08/445,054	19-May-95	5634.101
08/445,290	19-May-95	5634.113
08/445,294	19-May-95	5634.119
08/445,296	19-May-95	5634.105
08/445,328	19-May-95	5634.112
08/446,123	19-May-95	5634.116
08/446,124	19-May-95	5634.117
08/446,429	22-May-95	5634.151
08/446,430	22-May-95	5634.152
08/446,431	22-May-95	5634.150
08/446,432	22-May-95	5634.149
08/446,494	22-May-95	5634.154



08/446,553	19-May-95	5634.104
08/446,579	19-May-95	5634.106
08/447,380	24-May-95	5634.125
08/447,414	23-May-95	5634.122
08/447,415	23-May-95	5634.129
08/447,416	23-May-95	5634.128
08/447,446	23-May-95	5634.135
08/447,447	23-May-95	5634.140
08/447,448	23-May-95	5634.132
08/447,449	23-May-95	5634.138
08/447,496	23-May-95	5634.121
08/447,502	23-May-95	5634.143
08/447,529	24-May-95	5634.144
08/447,611	23-May-95	5634.137
08/447,621	23-May-95	5634.156
08/447,679	23-May-95	5634.130
08/447,711	23-May-93	5634.153
08/447,712	23-May-95	5634.127
08/447,724	23-May-95	5634.131
08/447,726	23-May-95	5634.159
08/447,826	23-May-95	5634.126
08/447,908	23-May-95	5634.134
08/447,938	23-May-95	5634.133
08/447,974	23-May-95	5634.145
08/447,977	23-May-95	5634.141
08/448,099	23-May-95	5634.158
08/448,116	23-May-95	5634.157
08/448,141	23-May-95	5634.155
08/448,143	23-May-95	5634.120
08/448,175	23-May-95	5634.102
08/448,251	23-May-95	5634.142
08/448,309	23-May-95	5634.139
08/448,326	23-May-95	5634.123
08/448,643	24-May-95	5634.072
08/448,644	24-May-95	5634.163
08/448,662	24-May-95	5634.201
08/448,667	24-May-95	5634.179
08/448,794	24-May-95	5634.203
08/448,810	24-May-95	5634.177
08/448,833	24-May-95	5634.162
08/448,915	24-May-95	5634.069
08/448,916	24-May-95	5634.209
08/448,917	24-May-95	5634.165
08/448,976	24-May-95	5634.161
08/448,977	24-May-95	5634.071

08/448,978	24-May-95	5634.181
08/448,979	24-May-95	5634.207
08/449,097	24-May-95	5634.208
08/449,110	24-May-95	5634.204
08/449,248	24-May-95	5634.171
08/449,263	24-May-95	5634.172
08/449,281	24-May-95	5634.183
08/449,291	24-May-95	5634.068
08/449,302	24-May-95	5634.147
08/449,351	24-May-95	5634.170
08/449,369	24-May-95	5634.058
08/449,411	24-May-95	5634.180
08/449,413	24-May-95	5634.174
08/449,523	24-May-95	5634.182
08/449,530	24-May-95	5634.124
08/449,531	24-May-95	5634.176
08/449,532	24-May-95	5634.205
08/449,652	24-May-95	5634.146
08/449,697	24-May-95	5634.175
08/449,702	24-May-95	5634.202
08/449,717	24-May-95	5634.067
08/449,718	24-May-95	5634.164
08/449,798	24-May-95	5634.206
08/449,800	24-May-95	5634.184
08/449,829	24-May-95	5634.178
08/449,867	24-May-95	5634.169
08/449,901	23-May-95	5634.136
08/450,680	24-May-95	5634.200
08/451,203	26-May-95	5634.079
08/451,377	26-May-95	5634.070
08/451,496	26-May-95	5634.057
08/451,746	26-May-95	5634.078
08/452,395	26-May-95	5634.065
08/458,566	2-Jun-95	5634.230
08/458,699	2-Jun-95	5634.247
08/458,760	2-Jun-95	5634.217
08/459,216	2-Jun-95	5634.218
08/459,217	2-Jun-95	5634.231
08/459,218	2-Jun-95	5634.256
08/459,506	2-Jun-95	5634.224
08/459,507	2-Jun-95	5634.232
08/459,521	2-Jun-95	5634.233
08/459,522	2-Jun-95	5634.238
08/459,788	2-Jun-95	5634.243
08/460,043	2-Jun-95	5634.215

08/460,081	2-Jun-95	5634.240
08/460,085	2-Jun-95	5634.239
08/460,120	2-Jun-95	5634.214
08/460,187	2-Jun-95	5634.220
08/460,240	2-Jun-95	5634.241
08/460,256	2-Jun-95	5634.254
08/460,274	2-Jun-95	5634.236
08/460,387	2-Jun-95	5634.219
08/460,394	2-Jun-95	5634.222
08/460,401	2-Jun-95	5634.242
08/460,556	2-Jun-95	5634.248
08/460,557	2-Jun-95	5634.245
08/460,591	2-Jun-95	5634.216
08/460,592	2-Jun-95	5634.225
08/460,634	2-Jun-95	5634.246
08/460,642	2-Jun-95	5634.244
08/460,668	2-Jun-95	5634.211
08/460,677	2-Jun-95	5634.221
08/460,711	2-Jun-95	5634.212
08/460,713	2-Jun-95	5634.253
08/460,743	2-Jun-95	5634.229
08/460,765	2-Jun-95	5634.255
08/460,766	2-Jun-95	5634.249
08/460,770	2-Jun-95	5634.237
08/460,793	2-Jun-95	5634.213
08/460,817	2-Jun-95	5634.223
08/466,887	6-Jun-95	5634.281
08/466,888	6-Jun-95	5634.270
08/466,890	6-Jun-95	5634.298
08/466,894	6-Jun-95	5634.276
08/467,045	6-Jun-95	5634.285
08/467,904	6-Jun-95	5634.284
08/468,044	6-Jun-95	5634.282
08/468,323	6-Jun-95	5634.292
08/468,324	6-Jun-95	5634.259
08/468,641	6-Jun-95	5634.263
08/468,736	6-Jun-95	5634.277
08/468,994	6-Jun-95	5634.297
08/469,056	6-Jun-95	5634.264
08/469,059	6-Jun-95	5634.288
08/469,078	6-Jun-95	5634.279
08/469,103	6-Jun-95	5634.300
08/469,106	6-Jun-95	5634.266
08/469,107	6-Jun-95	5634.294
08/469,108	6-Jun-95	5634.269

08/469,109	6-Jun-95	5634.296
08/469,355	6-Jun-95	5634.260
08/469,496	6-Jun-95	5634.290
08/469,517	6-Jun-95	5634.287
08/469,612	6-Jun-95	5634.280
08/469,623	6-Jun-95	5634.273
08/469,624	6-Jun-95	5634.262
08/469,626	6-Jun-95	5634.272
08/470,051	6-Jun-95	5634.268
08/470,052	6-Jun-95	5634.302
08/470,053	6-Jun-95	5634.291
08/470,054	6-Jun-95	5634.265
08/470,236	6-Jun-95	5634.278
08/470,447	6-Jun-95	5634.275
08/470,448	6-Jun-95	5634.293
08/470,476	6-Jun-95	5634.301
08/470,570	6-Jun-95	5634.289
08/470,571	6-Jun-95	5634.261
08/471,024	6-Jun-95	5634.299
08/471,191	6-Jun-95	5634.267
08/471,238	6-Jun-95	5634.271
08/471,239	6-Jun-95	5634.283
08/471,240	6-Jun-95	5634.286
08/472,066	6-Jun-95	5634.295
08/472,399	7-Jun-95	5634.305
08/472,462	7-Jun-95	5634.315
08/472,980	7-Jun-95	5634.353
08/473,213	7-Jun-95	5634.320
08/473,224	7-Jun-95	5634.187
08/473,484	7-Jun-95	5634.258
08/473,927	7-Jun-95	5634.333
08/473,996	7-Jun-95	5634.073
08/473,997	7-Jun-95	5634.364
08/473,998	7-Jun-95	5634.328
08/473,999	7-Jun-95	5634.342
08/474,119	7-Jun-95	5634.330
08/474,139	7-Jun-95	5634.324
08/474,145	7-Jun-95	5634.303
08/474,146	7-Jun-95	5634.186
08/474,147	7-Jun-95	5634.226
08/474,496	7-Jun-95	5634.360
08/474,674	7-Jun-95	5634.319
08/474,963	7-Jun-95	5634.098
08/474,964	7-Jun-95	5634.064
08/475,341	7-Jun-95	5634.160

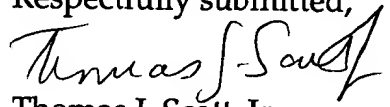
08/475,342	7-Jun-95	5634.234
08/477,547	7-Jun-95	5634.329
08/477,564	7-Jun-95	5634.340
08/477,570	7-Jun-95	5634.335
08/477,660	7-Jun-95	5634.090
08/477,711	7-Jun-95	5634.312
08/477,712	7-Jun-95	5634.173
08/477,805	7-Jun-95	5634.197
08/477,955	7-Jun-95	5634.188
08/478,044	7-Jun-95	5634.334
08/478,107	7-Jun-95	5634.309
08/478,544	7-Jun-95	5634.306
08/478,663	7-Jun-95	5634.099
08/478,767	7-Jun-95	5634.316
08/478,794	7-Jun-95	5634.347
08/478,858	7-Jun-95	5634.351
08/478,864	7-Jun-95	5634.167
08/478,908	7-Jun-95	5634.313
08/479,042	7-Jun-95	5634.352
08/479,215	7-Jun-95	5634.358
08/479,216	7-Jun-95	5634.341
08/479,217	7-Jun-95	5634.093
08/479,374	7-Jun-95	5634.148
08/479,375	7-Jun-95	5634.326
08/479,414	7-Jun-95	5634.359
08/479,523	7-Jun-95	5634.365
08/479,524	7-Jun-95	5634.054
08/479,667	7-Jun-95	5634.192
08/480,059	7-Jun-95	5634.063
08/480,060	7-Jun-95	5634.227
08/480,383	7-Jun-95	5634.349
08/480,392	7-Jun-95	5634.310
08/480,740	7-Jun-95	5634.343
08/481,074	7-Jun-95	5634.190
08/482,573	7-Jun-95	5634.096
08/482,574	7-Jun-95	5634.210
08/482,857	7-Jun-95	5634.311
08/483,054	7-Jun-95	5634.195
08/483,169	7-Jun-95	5634.338
08/483,174	7-Jun-95	5634.251
08/483,269	7-Jun-95	5634.307
08/483,980	7-Jun-95	5634.066
08/484,275	7-Jun-95	5634.323
08/484,276	7-Jun-95	5634.092
08/484,858	7-Jun-95	5634.362

08/484,865	7-Jun-95	5634.348
08/485,282	7-Jun-95	5634.361
08/485,283	7-Jun-95	5634.199
08/485,507	7-Jun-95	5634.304
08/485,772	7-Jun-95	5634.332
08/485,775	7-Jun-95	5634.077
08/486,258	7-Jun-95	5634.357
08/486,259	7-Jun-95	5634.257
08/486,265	7-Jun-95	5634.228
08/486,266	7-Jun-95	5634.337
08/486,297	7-Jun-95	5634.331
08/487,155	7-Jun-95	5634.308
08/487,397	7-Jun-95	5634.250
08/487,408	7-Jun-95	5634.356
08/487,410	7-Jun-95	5634.314
08/487,411	7-Jun-95	5634.318
08/487,428	7-Jun-95	5634.363
08/487,506	7-Jun-95	5634.350
08/487,516	7-Jun-95	5634.094
08/487,526	7-Jun-95	5634.355
08/487,536	7-Jun-95	5634.097
08/487,546	7-Jun-95	5634.325
08/487,556	7-Jun-95	5634.321
08/487,565	7-Jun-95	5634.327
08/487,649	7-Jun-95	5634.344
08/487,851	7-Jun-95	5634.252
08/487,893	7-Jun-95	5634.191
08/487,980	7-Jun-95	5634.076
08/487,981	7-Jun-95	5634.196
08/487,982	7-Jun-95	5634.095
08/487,984	7-Jun-95	5634.346
08/488,032	7-Jun-95	5634.189
08/488,058	7-Jun-95	5634.322
08/488,378	7 Jun 95	5634.339
08/488,383	7-Jun-95	5634.166
08/488,436	7-Jun-95	5634.336
08/488,438	7-Jun-95	5634.235
08/488,439	7-Jun-95	5634.185
08/488,619	7-Jun-95	5634.317
08/488,620	7-Jun-95	5634.354
08/498,002	7-Jun-95	5634.345
08/511,491	6-Jun-95	5634.274

**REMARKS**

In accordance with the duty of disclosure under 37 C.F.R. § 1.56(a), Applicants herewith submit a reference to all related copending U.S. Patent Applications now pending before the U.S. Patent and Trademark Office.

Date: December 13, 1995  
**HOWREY & SIMON**  
1299 Pennsylvania Avenue, NW  
Washington, D.C. 20004  
Tel: (202) 383-6614

Respectfully submitted,  
  
Thomas J. Scott, Jr.  
Reg. No. 27,836  
Attorney for Applicants